

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	34	(US-20050104991-\$ or US-20010030276-\$ or US-20040056365-\$).did. or (US-6011860-\$ or US-5087964-\$ or US-6564018-\$ or US-5952714-\$ or US-5786589-\$ or US-4594613-\$ or US-6956615-\$ or US-5861654-\$ or US-6172361-\$ or US-7019374-\$ or US-4780572-\$ or US-5867368-\$ or US-6030856-\$ or US-5617131-\$ or US-6518656-\$ or US-6288851-\$ or US-6798031-\$ or US-6462806-\$ or US-5184398-\$ or US-6283644-\$ or US-4566930-\$ or US-6504667-\$ or US-5981945-\$ or US-5703395-\$ or US-5679978-\$ or US-6379997-\$).did. or (EP-773673-\$ or WO-9910773-\$). did. or (JP-11191865-\$ or JP-04235475-\$).did. or (US-20020047119-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/18 12:58
L2	11	1 and filter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/18 12:58
L3	15	("4594613"   "5040069"   "5072283"   "5087964"   "5596229"   "5861654"   "5870638"   "5952714"   "6035147"   "6204896"   "6362921"   "6392703"   "6528778"   "6628339"   "6693674"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/18 13:01
L4	20	image near3 sensor same filter same lens same substrate same wiring	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/18 13:02
L5	408	image near3 sensor same filter same lens same substrate	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/18 13:03
L6	43	5 and @ay<"2000"	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/18 13:36
L7	68	("5821532").URPN.	USPAT	OR	OFF	2007/03/18 13:28
L8	487	348/294.ccls.	USPAT	OR	OFF	2007/03/18 13:28
L9	426	348/335.ccls.	USPAT	OR	OFF	2007/03/18 13:28
L11	232	359/809.ccls.	USPAT	OR	OFF	2007/03/18 13:28
L12	1054	257/700.ccls.	USPAT	OR	OFF	2007/03/18 13:28
L13	537	257/730.ccls.	USPAT	OR	OFF	2007/03/18 13:28
L14	455	257/684.ccls.	USPAT	OR	OFF	2007/03/18 13:29

## EAST Search History

L15	866	257/719.ccls.	USPAT	OR	OFF	2007/03/18 13:29
L16	188	257/708.ccls.	USPAT	OR	OFF	2007/03/18 13:29
L17	133	257/709.ccls.	USPAT	OR	OFF	2007/03/18 13:29
L18	133	257/709.ccls.	USPAT	OR	OFF	2007/03/18 13:29
L19	140	257/711.ccls.	USPAT	OR	OFF	2007/03/18 13:30
L20	15	ccd with washer	USPAT	OR	OFF	2007/03/18 13:31
L21	1428352	image near\$ sensor with washer	USPAT	OR	OFF	2007/03/18 13:31
L22	1428111	image near\$4 sensor with washer	USPAT	OR	OFF	2007/03/18 13:31
L23	1427491	image near\$4 sensor with washer same lens	USPAT	OR	OFF	2007/03/18 13:32
L24	2	image with sensor with washer same lens	USPAT	OR	OFF	2007/03/18 13:32
L25	1	image near4 sensor with washer same lens	USPAT	OR	OFF	2007/03/18 13:32
L26	37	"348"/\$4.ccls. and (washer or spacer) with (ccd or sensor or cmos or imager) with (lens or optic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/18 13:33
L27	50	"348"/\$.ccls. and (washer or spacer) with (ccd or sensor or cmos or imager) with (lens or optic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/18 13:35
L28	144	camera and (washer or spacer) with (ccd or sensor or cmos or imager) with (lens or optic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/18 13:37
L29	23	28 and @ay<"2000"	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/18 13:38
L30	2850	camera and (washer or spacer or separator or ring or step) with (ccd or sensor or cmos or imager) with (lens or optic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/18 13:37

## EAST Search History

L31	1205	camera and (washer or spacer or separator or ring) with (ccd or sensor or cmos or imager) with (lens or optic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/18 13:38
L32	779	camera and (ring) with (ccd or sensor or cmos or imager) with (lens or optic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/18 13:38
L33	227	32 and @ay<"2000"	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/18 13:38
S1	350	348/294.ccls. and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 09:56
S2	32	("20020047119" "20020051068" "20020145676" "20020190397" "20020191103" "20040238943" "20040263671" "5017988" "5097304" "5777335" "5952714" "6323891" "6548815" "6724503" "6795120" "6900843").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 10:03
S3	12	(yogesh with aggarwal).xa. and metal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/06 13:21
S4	15	("4594613"   "5040069"   "5072283"   "5087964"   "5596229"   "5861654"   "5870638"   "5952714"   "6035147"   "6204896"   "6362921"   "6392703"   "6528778"   "6628339"   "6693674").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/06 13:56
S5	7	"6476417"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/06 14:04
S6	2	"6476417".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/06 14:04

## EAST Search History

S7	7	("4896217"   "5400072"   "5576895"   "5627589"   "5673083"   "6031998"   "6122009").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/06 14:04
S8	4	("6476417").URPN.	USPAT	OR	OFF	2006/04/06 14:05
S9	5	("5523608"   "5821532"   "6316838"   "6380629"   "6476417").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/06 14:35
S10	2401	(sensor or ccd or (solid adj state)) near4 (enclosure or package) and substrate same (sensor or ccd or (solid adj state))	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 14:38
S11	1062	S10 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/06 14:37
S12	753	S11 and (sensor or ccd or (solid adj state)).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 14:38
S13	1062	S11 and ((sensor or ccd or (solid adj state)) near4 (enclosure or package))	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 14:39
S14	101	S11 and ((sensor or ccd or (solid adj state)) near4 (enclosure or package)).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 14:46
S15	34	(nelson with hernandez).xa.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/06 14:47
S16	2	("4987321"   "6018364").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/06 14:49
S17	2	"6476417".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/06 15:28
S18	7	("4896217"   "5400072"   "5576895"   "5627589"   "5673083"   "6031998"   "6122009").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/06 15:29
S19	669	348/294.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/10 09:58
S20	32	("20020047119" "20020051068" "20020145676" "20020190397" "20020191103" "20040238943" "20040263671" "5017988" "5097304" "5777335" "5952714" "6323891" "6548815" "6724503" "6795120" "6900843").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 10:03

## EAST Search History

S21	18	("5952714").URPN.	USPAT	OR	OFF	2006/04/10 10:06
S22	1	("5952714").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 10:15
S23	246	257/708.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 10:44
S24	147	257/709.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 10:45
S25	172	257/711.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:04
S26	1029	substrate with back with sensor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:05
S27	680	substrate near4 back with sensor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:05
S28	16	("20020043706"   "20020089044"   "20020093078"   "5087964"   "5266828"   "5352852"   "5463229"   "5786589"   "5867368"   "6144507"   "6255769"   "6342406"   "6400075"   "6566745"   "6571466"   "6656768"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:11
S29	4	("5293511"   "5491362"   "5610431"   "6288851").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:16
S30	3233	tomita.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:16
S31	69	(yoshihiro with tomita).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:19
S32	4	"6288851"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:20
S33	5	"6288851"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 13:20
S34	1	("5523608").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:21

## EAST Search History

S35	1	11-154810	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:22
S36	2	"11154810"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:22
S37	0	11-249473	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:22
S38	0	11-249473	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 13:23
S39	3	"11249473"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 13:24
S40	408	359/809.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 13:24
S41	124	S40 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:42
S42	626	257/684.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 13:26
S43	10	("20020096753"   "5211762"   "5952714"   "6130448"   "6297540"   "6396116"   "6455774"   "6531341"   "6545332"   "6590269").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:29

## EAST Search History

S44	42	("3972821"   "3973059"   "4459332"   "4485429"   "4603731"   "4685987"   "4849858"   "4869954"   "5014161"   "5077637"   "5150748"   "5178924"   "5213868"   "5328087"   "5402006"   "5455458"   "5528456"   "5542471"   "5545473"   "5585671"   "5674585"   "5691022"   "5695847"   "5725707"   "5726495"   "5852548"   "5858537"   "5873973"   "5898570"   "5904796"   "5912805"   "5968606"   "6030856"   "6054198"   "6080605"   "6084775"   "6090484"   "6096414"   "6197859"   "6204455"   "6311769"   "6436506"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:33
S45	20	("20010035576"   "20010050721"   "20020110949"   "5113290"   "5400072"   "5821532"   "5861654"   "5865935"   "5912774"   "5990552"   "5998878"   "6037641"   "6075237"   "6133569"   "6144031"   "6147389"   "6303978"   "6389687"   "6518656"   "6571466").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:39
S46	11	("20010012098"   "4560273"   "5153734"   "5609561"   "5673083"   "5699073"   "6025873"   "6072232"   "6084238"   "6203222"   "6326602"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:49
S47	914	257/719.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:49
S48	11	S46 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 13:49
S49	460	S47 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 13:53
S50	1042	substrate near3 (back or rear or under) near5 (sensor or photodetector or ccd or cmos)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 13:53
S51	579	S50 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:08

## EAST Search History

S52	34	(nelson with hernandez).xa.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:09
S53	1	09/691187	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:50
S54	2	"6114764".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:50
S55	135	(kazuhiro with hoshino).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:26
S56	1	4-235475	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:53
S57	9	"4235475"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:54
S58	0	04-235475	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:54
S59	1	4-235475	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:55
S60	0	04-235475	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:55
S61	4	"04235475"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:56



## EAST Search History

S62	4	"11191865"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:58
S63	9	"0773673"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:58
S64	12	"773673"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 14:59
S65	3	"19651260"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:13
S66	11	"6172361"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:15
S67	59	"6266197"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:15
S68	7	("4418284"   "4523102"   "5138145"   "5867368"   "6172361"   "6266197"   "6342406").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 15:18
S69	10	("4663652"   "4760440"   "5118370"   "5200631"   "5331512"   "5357056"   "5478007"   "5495450"   "5753857"   "5786589").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 15:21
S70	13	("4113981"   "4740700"   "4929965"   "5019201"   "5021888"   "5042919"   "5084961"   "5117300"   "5118370"   "5360943"   "5362976"   "5432358"   "5506401").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 15:34
S71	0	09/652150	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 15:35

## EAST Search History

S72	0	09/652150	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:35
S73	0	09/652,150	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:35
S74	18	"652150"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:35
S75	1333	substrate near3 metal with sensor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:39
S76	695	S75 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 16:41
S77	306	S76 and metal with layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 16:37
S78	192	S76 and metal near2 layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 16:37
S79	173	substrate with metal near2 layer with lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:45
S80	64	S79 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 16:46

## EAST Search History

S81	51	substrate with metal near2 plate with lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:45
S82	19	S81 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 16:52
S83	69497	sensor with lenswith metal near3 (layer or plate) near6 substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:48
S84	3	sensor with lens with metal near3 (layer or plate) near6 substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:48
S85	96582	sensor with lenswith metal near3 (layer or plate) with substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:49
S86	13	sensor with lens with metal near3 (layer or plate) with substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:50
S87	19	sensor with lens same metal near3 (layer or plate) with substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:51
S88	337	257/660.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:51
S89	236	S88 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 18:36
S90	110	S89 and metal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 17:03

## EAST Search History

S91	37	S89 and metal near3 (layer or plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 17:03
S92	40	S89 and metal near3 (layer or plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 17:05
S93	4	lens near3 (support or post) with metal near4 (layer or plate) same substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:00
S94	2	8-327448	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:01
S95	0	"8327448"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:01
S96	2	"08327448"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:02
S97	3	"9113352"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:02
S98	2	"09113352"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:02
S99	4	"10242519"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:02
S10 0	0	lens near3 (support or mount or post) with sensor and lens near3 (support or mount or post) with (metal near4 (layer or sheet or plate or seal\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:04

## EAST Search History

S10 1	5	lens near3 (support or mount or post) with sensor and (support or mount or post) with (metal near4 (layer or sheet or plate or seal\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:05
S10 2	6537	(optics or lens) with (support or mount or post or holder) with (photo\$1sens\$4 or photo\$1detect\$4 or sens\$4 or imager or ccd or cmos)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:06
S10 3	151	S102 and metal near8 substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:31
S10 4	2	"6172361".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:20
S10 5	2	"6266197".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:20
S10 6	2	"4594613".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:20
S10 7	2	"5783815".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:33
S10 8	119	lens with (mount or support or holder) with substrate and substrate with metal near3 (layer or shield or support or plate or layer or sheet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 11:23
S10 9	58	S108 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 18:40
S11 0	2403	(lens or optic\$3) with (mount or support or holder or post or structure) with substrate and substrate with metal near3 (layer or shield or support or plate or layer or sheet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 18:40

## EAST Search History

S11 1	1120	S110 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 18:41
S11 2	1056	S111 not tsikos.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 09:52
S11 3	2	substrate near3 plate with sensor with (strong\$4 or strenght or durable or break\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:54
S11 4	89274	substrate with metal near2 (plate or layer or sheet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:55
S11 5	14813	S114 and (sensor or photo\$1detector or photo\$1sensor or ccd or cmos or imager or camera)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:56
S11 6	2272	S114 same (sensor or photo\$1detector or photo\$1sensor or ccd or cmos or imager or camera)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:56
S11 7	1242	S114 with (sensor or photo\$1detector or photo\$1sensor or ccd or cmos or imager or camera)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:56
S11 8	609	S117 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 16:29
S11 9	30	lens with (mount or support or holder) with substrate with (spacer or washer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 11:25
S12 0	36	lens with (mount or support or holder) with (spacer or washer) with (sensor or photo\$1detect\$4 or photo\$1sens\$4 or imager or cd or cmos)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 11:31

## EAST Search History

S12 1	11	S120 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 11:35
S12 2	711	lens near5 (support or mount or post or holder) with (spacer or washer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 13:14
S12 3	348	S122 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 14:06
S12 4	107	S123 and (sensor or imager or camera or ccd or cmos)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 11:36
S12 5	115	S123 and (sensor or imager or camera or ccd or cmos)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 13:10
S12 6	30	348/335.ccls. and spacer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 13:13
S12 7	39	(lens or optics) near5 (support or mount or post or holder) with (spacer or washer) same substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 13:23
S12 8	63	(lens or optics) with (support or mount or post or holder) with (spacer or washer) same substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 13:19
S12 9	33	S128 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 13:22

## EAST Search History

S13 0	4458	(lens or optics) near5 (support or mount or post or holder) with (ring)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 13:23
S13 1	32	(lens or optics) near5 (support or mount or post or holder) with (ring) with substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:05
S13 2	906	(lens or optics) with (ring or spacer or washer) with substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:06
S13 3	417	S132 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 14:15
S13 4	7	("4055761"   "4403243"   "4993799"   "5087964"   "5167724"   "5274456"   "5617131").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 14:11
S13 5	16	("5981945").URPN.	USPAT	OR	OFF	2006/04/11 14:15
S13 6	490	257/730.ccls.	USPAT	OR	OFF	2006/04/11 14:22
S13 7	299	S136 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 16:05
S13 8	971	257/700.ccls.	USPAT	OR	OFF	2006/04/11 14:22
S13 9	620	S138 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 14:28
S14 0	7	S138 and (@ad<"19990903" or @rlad<"19990903") and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 14:28



## EAST Search History

S14 1	8	S138 and (@ad<"19990903" or @rlad<"19990903") and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:31
S14 2	462848	substrate with metal plate with (strong\$3 or reinforc\$4 or streng\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:31
S14 3	12760	S142 and (@ad<"19990903" or @rlad<"19990903") and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:31
S14 4	405	substrate with metal near3 plate with (strong\$3 or reinforc\$4 or streng\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:31
S14 5	12760	S143 and (@ad<"19990903" or @rlad<"19990903") and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:31
S14 6	5	S144 and (@ad<"19990903" or @rlad<"19990903") and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:32
S14 7	247	S144 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:45
S14 8	2	"5679978".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 14:51
S14 9	4	"5679978" and S147	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 16:05
S15 0	529	flip near2 chip with sensor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 16:05

## EAST Search History

S15 1	144	S150 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 19:01
S15 2	148	lens with spacer with (ccd or imager or sensor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 16:29
S15 3	66	S152 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 16:29
S15 4	7	("4055761"   "4403243"   "4993799"   "5087964"   "5167724"   "5274456"   "5617131").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/11 17:51
S15 5	32	("20020047119" "20020051068" "20020145676" "20020190397" "20020191103" "20040238943" "20040263671" "5017988" "5097304" "5777335" "5952714" "6323891" "6548815" "6724503" "6795120" "6900843").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:24
S15 6	0	09/652150	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:24
S15 7	0	09/652,150	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:24
S15 8	0	"09 / 652,150"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:25
S15 9	0	"09650160"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:25
S16 0	2	"5777335".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:30

## EAST Search History

S16 1	17968	sensor with shield\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:30
S16 2	4984	sensor with shield\$4 near5 (light or radiation)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:30
S16 3	65	sensor with shield\$4 near5 (light or radiation) with rear	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 18:30
S16 4	73	sensor with shield\$4 near5 (light or radiation) with rear	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 18:39
S16 5	604	sensor and resin with si	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 19:01
S16 6	310	sensor and resin near5 shield	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 19:01
S16 7	185	S166 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 19:02
S16 8	144	S167 not jones	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 19:07
S16 9	14	(ccd or imager or sensor) with shield with (light or radiation) with resin and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 19:10
S17 0	28	(ccd or imager or sensor) with shield with (light or radiation) and shield with resin and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 09:38

## EAST Search History

S17 1	201	(ccd or imager or sensor) with (shield\$4 OR BLOCK\$4) with (light or radiation) and (shield\$4 or block\$4) with resin and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 09:39
S17 2	111	(ccd or imager or sensor) with (shield\$4 OR BLOCK\$4) with (light or radiation) and (shield\$4 or block\$4) with resin and (@ad<"19990903" or @rlad<"19990903") and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:21
S17 3	2	"6724503".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 09:51
S17 4	1	"6724503".pn. and material	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 09:51
S17 5	1	"6724503".pn. and material and resin	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 09:52
S17 6	1	"6724503".pn. and material and resin and shield\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 09:52
S17 7	2	"5777335".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:40
S17 8	4	"11191865"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 10:40
S17 9	2016	(ccd or imager or sensor) with (display or lcd or viewfinder) with substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/12 13:28
S18 0	34	(nelson with hernandez).xa.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/12 13:09

## EAST Search History

S18 1	1193	S179 and (@ay<"2002")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/12 13:25
S18 2	689	(ccd or imager or sensor) with (display or lcd or viewfinder) with substrate same image and @ay<"2002"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/12 13:29
S18 3	89	S182 and single near3 substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/12 13:32
S18 4	209	S182 and "same" near3 substrate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/12 13:32
S18 5	36	S182 and "same" near3 substrate with (camera or ccd or cmos or imager or sensor) with (lcd or display or viewfinder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/12 14:00
S18 6	86	reset near4 (frequency or timing) with (power or battery) near5 level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 15:25
S18 7	6	(read\$4out) near4 (frequency or timing) with (power or battery) near5 level	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/12 15:25